IC ICM **A61K048-00**; C12N015-09; C12N015-31; C12N015-63; C12N015-86
ICS A61K031-70; A61K035-74; A61K037-02; A61K038-02; A61K039-00; C07H021-04; C12N005-10; C12N015-88; C12P021-00
ICA A61K009-127; A61K035-12; C12N015-12; C12N015-24
ICI C12N015-09, C12R001:32
AB WO 9411513 A UPAB: 19940722
Expression vector for treating neoplasms comprises nucleic acid including at least one sequence which expresses a **heat shock protein** (**hsp**) or a chaperone (Ch; a **protein** which mediates folding of other **proteins** into their active configuration).

Also new are (1) cells and neoplasm cell lines contg. such vectors; (2) cells or viruses having in the genome heterologous NA encoding **hsp** or Ch. Pref. NA encodes a chaperonin or bacterial **hsp**, esp. **Mycobacterium** leprae 65 or **70** kD **hsp**.

The vector is (a) a virus, esp. a disabled retrovirus, retroviral shuttle vector (specifically pZIPNeoSV(x)), vaccinia or adenovirus; (b) a plasmid or (c) an episomal vector.

USE/ADVANTAGE - The vectors, cell lines, cells and viruses are used to treat or prevent neoplasms (e.g. sarcomas, carcinomas, lymphomas, neuroblastomas, melanomas, leukaemias, etc.). When esp. or Ch genes are used together with a cytokine gene, synergism may occur, increasing the chance of tumour eradication. Use with a gene for tumour antigen may impart protection against other neoplasms expressing the same antigen.

Dwg.1b/5
FS CPI
FA AB; GI
MC CPI: B04-E08; B04-F02; B04-F11; B14-H01A; B14-H01B; B14-S09; D05-H06; D05-H08; D05-H12A; D05-H12E; D05-H19

=> d his

(FILE 'HOME' ENTERED AT 15:13:22 ON 09 DEC 2002)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:13:35 ON 09 DEC 2002
E HEAT SHOCK PROTEIN/CT
E E5+ALL
L1 2711 S E2
E HEAT-SHOCK PROTEIN/CT
L2 2711 S E24,E25
L3 136 S E7
E E6+ALL
L4 5904 S E3-E6
L5 1687 S E33
L6 9 S E37
L7 25 S E47
L8 9865 S E2+NT
L9 12546 S L1-L8
L10 17680 S HEAT SHOCK? (L) PROTEIN
L11 11389 S HSP
L12 6446 S L9-L11 AND 70
L13 5815 S HSP70
L14 8321 S L12,L13
L15 8321 S L14 AND L1-L14
L16 11 S PROTEIN#/SC,SX AND HEAT SHOCK?
L17 20223 S L1-L16
E ANTIGEN-PRESENT/CT
E E5+ALL
L18 7638 S E6/BI,CT
L19 2283 S E6
L20 7318 S E6+NT

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                E E11+ALL
L21          3376 S E4
L22           244 S L17 AND L18-L21
L23           805 S L17 AND MYCOBACT?
                E MYCOBACTER/CT
L24          5314 S E11-E120
L25          1974 S E121-E156
L26           884 S E157-E180
                E E3+ALL
                E E10+ALL
L27         17220 S E5+NT
                E MYCOBACTERIUM PISCICIDA/CT
L28          7634 S E4-E60
L29           157 S E61-E65
L30           548 S L17 AND L24-L29
L31           805 S L23,L30
L32            59 S L31 AND L22
L33            21 S L32 AND (HSP70 OR HSP 70)
L34            21 S L33 AND (1 OR 63 OR 15)/SC
L35             8 S L33 AND (1 OR 63 OR 15)/SX
L36            21 S L33-L35
                E DRUG DELIVERY/CT
L37         40807 S E7-E120
L38         23757 S E121-E180
L39         13324 S E181-E204
L40          8683 S E205-E216
                E E6+ALL
L41         48056 S E3
L42        125483 S E2+NT
                E DRUG DESIGN/CT
                E E3+ALL
L43          5311 S E3
                E E12+ALL
L44          3263 S E5
                E QSAR/CT
                E E4+ALL
L45          5757 S E3,E4,E2+NT
L46         62985 S E1+NT
L47           338 S L17 AND L37-L46
L48            61 S L47 AND L31
L49            14 S L48 AND L22
L50            27 S L36,L49
                E YOUNG /AU
                E YOUNG R/AU
L51           303 S E3-E5
L52           362 S E111-E114
L53            27 S L51,L52 AND L17
L54             2 S L53 AND L47
L55             3 S L53 AND L22
L56            21 S L53 AND L31
L57             4 S L56 AND L54,L55
L58             4 S L54,L55,L57
L59             3 S L58 NOT PRODUCTION/TI
L60            24 S L53-L58 NOT L59
                SEL DN AN 6 8 8 12 13 18 19
L61             6 S L60 AND E1-E18
L62             9 S L59,L61
L63           455 S L8 (L) THU/RL
L64           109 S L63 AND L37-L46
L65            85 S L63 AND L31
L66            31 S L64 AND L65
L67            38 S L62,L66
L68            42 S L36,L48 NOT L67
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L69          22 S L68 AND (PY<=1997 OR PRY<=1997 OR AY<=1997)
L70           6 S L69 AND (1 OR 63)/SC,SX
L71           4 S L70 NOT (ALLOTYPE OR IGG)/TI
L72          42 S L67,L71
L73          33 S L72 NOT L51,L52
L74           8 S L73 AND (PY<=1997 OR PRY<=1997 OR AY<=1997)
L75          17 S L62,L71,L74
L76       11632 S L17 AND (PY<=1997 OR PRY<=1997 OR AY<=1997)
L77         501 S L76 AND L31
L78         118 S L76 AND L47
L79          62 S L76 AND L22
L80          50 S L77 AND L78,L79
L81          11 S L80 AND L75
L82          39 S L80 NOT L81
                SEL DN AN 21 22
L83           2 S L82 AND E19-E24
L84          19 S L75,L81,L83
L85          57 S L79 NOT L84
L86          15 S L85 AND (HSP70 OR 70)
L87          34 S L84,L86
L88          31 S L87 AND (HSP70 OR HSP 70 OR 70)
L89           3 S L87 NOT L88
L90          34 S L88,L89
L91          34 S L90 AND L1-L90
L92          22 S L91 AND (MYCOBACT? OR TUBERCUL? OR VACCIN? OR IMMUNIZ? OR IMM
L93          12 S L91 NOT L92
                SEL DN AN 8 10 11
L94           9 S L93 NOT E25-E33
L95          31 S L92,L94,L62
L96          13 S L95 AND ?COMPLEX?
L97          31 S L95,L96

     FILE 'HCAPLUS' ENTERED AT 16:08:06 ON 09 DEC 2002

     FILE 'BIOSIS' ENTERED AT 16:09:23 ON 09 DEC 2002
                E YOUNG R/AU
L98         756 S E3-E7
                E YOUNG RICH/AU
L99         141 S E4,E5
L100        897 S L98,L99
L101       8589 S HSP70 OR (HSP OR HEAT SHOCK(L)PROTEIN)(L)70
L102         12 S L100 AND L101
L103       6086 S HEAT (L)STRESS?(L)PROTEIN
L104      20656 S HEAT (L)SHOCK?(L)PROTEIN
L105         25 S L100 AND L103,L104
L106         27 S L102,L105
                E MYCOBACTER/BC
L107      58236 S E5
L108          8 S L106 AND L107
L109         13 S L106 AND MYCOBACTER?
L110         13 S L108,L109
L111         14 S L106 NOT L110
                SEL DN AN 3 4 12 13
L112          4 S L111 AND E1-E8
L113         17 S L110,L112

     FILE 'BIOSIS' ENTERED AT 16:12:55 ON 09 DEC 2002

     FILE 'WPIX' ENTERED AT 16:13:07 ON 09 DEC 2002
                E YOUNG R/AU
L114        222 S E3,E4
L115        871 S HEAT(L)(SHOCK? OR STRESS?)(L)PROTEIN OR HSP OR HSP70
L116          6 S L114 AND L115
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L117       7980 S A61K048/IC,ICM,ICS
L118         77 S L115 AND L117
L119         22 S L118 AND (HSP70 OR HSP (L)70)
L120         12 S L118 AND 70
L121         24 S L119,L120
                SEL DN AN L116 4
L122          1 S E1-E2
L123         35 S D05-H10/MC AND L115
L124          7 S L123 AND (HSP(L)70 OR HSP70)
L125          8 S L122,L124
L126          1 S L121 AND L125
L127         31 S L121,L125
L128          6 S L127 AND MYCOBACT?
L129          7 S L122,L128
L130         24 S L127 NOT L129
                SEL DN AN 10 11 12 21 23
L131          5 S L130 AND E3-E12
L132         12 S L129,L131
L133        169 S L115/ABEX
L134        950 S L115,L133
L135         81 S L134 AND L117
L136         24 S L135 AND (70 OR HSP70)
L137          5 S L136 AND MYCOBACTER?
L138          0 S L136 AND MYCO BACTER?
                SEL DN AN 4 5 L137
L139          2 S E13-E16
L140         12 S L132,L139 AND L114-L139

     FILE 'WPIX' ENTERED AT 16:24:53 ON 09 DEC 2002
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